Urea Protein Extraction

This protocol describe the procedure for the extraction of liposoluble proteins from a bacterial pellet previously extracted.

1. Prepare Urea 8M by dissolving the compound in HEPES-NaCl buffer.
2. Prepare dilutions to 1M, 2M, 4M and 6M from the 8M solution.
3. Add 15ml of the 1M solution to a bacterial pellet (previously extracted). Incubate for 20 minutes in a tube rotator.
4. Centrifuge at 5000 rcf for 20 minutes.
5. Collect the liquid phase in a tube and label.
6. Add 15 ml of 2M solution. Repeat steps 3 to 5.
7. Repeat in an ascending way until you reach the 8M solution.
8. Run a SDS-PAGE to see in which concentration of urea the protein is extracted better.

Note: once the ideal concentration of urea is defined, the extraction can be done with just that concentration.

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